



TRAFFIC SPEED REFORT NO. 86

To: J. F. McLauchlin, Director

Sentember 12. 1968

Joint Highway Research Project

File: 8-3-3

From: H. L. Michael, Associate Director

Joint Bighway Besearch Project

Project: 0-16-100

The attached Progress Report No. 36 to Braffic Speeds is the report of the 1968 study of free-flowing ambomobile and uruck speeds on rural, tangent, level sections of Intersects, other belane and Selane highways in Indiana. The study and report have been performed by Mr. Salim S. Hejal, a Graduate Instructor in Herearch on our staff, under the direction of Professor Michael.

The results indicate similar average specia for all passenger cars and an increase of about 1.5 mph for a ... heavy trucks to those speeds noted in the 1967 study. A regression analysis of the speed data for the past eleven years indicated that the speed trend for all classes of vehicles on all classes of highway studied as an increasing one. Average speeds for passenger cars over all classes of highway have increased 0.85 mph annually and for all heavy trucks over all classes of highway the increase has been 0.87 mph annually.

Copies of this report are requested for release to the Indiana State Police, the Indiana Traffic Safety Council and the Indiana Office of Traffic Safety as is normal procedure for those reports. Copies will also be sent to the Bureau of Public Foads and savegal Departments within the ISHC. The report is presented for the record and for release as noted.

Respectfully submitted.

Those of the Ent Harold L. Wichael Associate Timector

HLM: 1b

Attachment

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Progress Report

TRAFFIC SPEED REPORT NO. 86

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Salim S. Hejal Graduate Assistant

Joint Highway Research Project

File No.: 8-3-3

Project No.: C-36-100

Purdue University Lafnyette, Indiana September 12, 1968

ABSTRACT

This report is the annual continuing study of the speeds of vehicles on rural Indiana highways. Observations of spot speeds were taken on interstate, other four lane, and two lane highways throughout the state during the months of June and July, 1968.

Analysis of the speeds showed the over-all average speed for passenger cars was 64.5 miles per hour. The over-all average speeds for trucks on the three types of highways was 56.5 miles per hour.

A regression analysis on the available results of the pase eleven years showed an annual increase of 0.85 miles per hour for the over-all average speed of passenger cars and 0.87 miles per hour for the over-all average speed of heavy trucks.

TRAFFIC SPEED REPORT NO. 86

This report is an analysis of spot speed observations made during June and July 1968. All observations were made of free-flowing vehicles on level, tangent sections of rural Indiana highways during daylight and under favorable weather conditions. The same locations on selected Federal and State highways as used in 1967 were used again. Most of these locations have been the same for many years. Stations were classified as - two lane, four lane, or interstate highways. A representative sample of traffic speeds was obtained at each of the four stations in each classification. The specific site of each station was as follows: (see Figure A)

Interstate Highways

- 1. I-69 3.3 Miles South of Junction of S. R. 18
- 2. I-65 1.0 Miles West of Junction of S. R. 334
- 3. I-74 1.0 Mile East of Junction of Post Road
- 4. I-65 2.9 Miles North of Junction of S. R. 160

Four Lene Highways

- 5. U.S. 31 1.2 Miles South of Junction of S.R. 38
- 6. U. S. 52 1.0 Nile East of Junction of S. R. 28
- 7. U. S. 41 1.0 Mile North of South Junction of S. R. 2
- 8. U.S. 52 1.0 Mile West of Klondike

Two Lane Highways

- 9. U. S. 41 1.0 Mile North of Boswell
- 10. S. R. 43 2.0 Miles South of Chalmers
- 11. U. S. 31 3.0 Miles South of Rochester
- 12. S. R. 25 0.7 Miles West of Americus

The vehicles were classified as passenger cars or trucks. Fassenger cars were further classified into two groups - Indiana or Non-Indiana and the analysis was performed as thus classified and combined. The trucks were also classified into two groups - Light (less than 5000 pounds gross weight) or Heavy (equal to or more than 5000 pounds gross weight), and again the analysis was performed as classified and combined.

The maximum speed limits in Indiana are as follows: 70 miles per hour on interstate highways and 65 miles per hour on other highways, unless otherwise posted. This is the second year that truck speed limits were the same as passenger cars. The stated maximum speed limits were applicable at all interstate, four lane and two lane stations of this study.

Equipment and Field Procedure

The observations for this report were obtained by use of an "Electromatic" Radar Speed Meter, built by Automatic Signal Division, Eastman Industries, Inc., East Norwalk, Connecticut. The meter was placed approximately four feet from the edge of the pavement at an angle less than 10° with the highway center line. Speed inaccuracies are negligible at small angles (less than 10°) and therefore, corrections for angle were unnecessary.

At the beginning of the study the accuracy of the meter was checked; a constant discrepency of minus two miles per hour was found and hence all readings of speed were corrected accordingly.

Results of Analysis

The data collected were analyzed and are summarized in Tables 1 to 12 in the Appendix. Tables 13, 14, and 15 summerize the data for

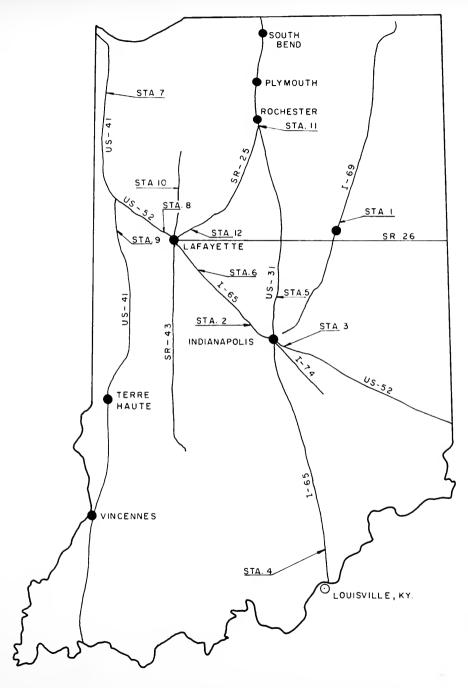


FIG. A - LOCATIONS OF SPEED-STUDY STATIONS

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Table 1.6 is the summary for all facilities that the summary for all facilities the summary for all facilities.

Figures 1 to 16 in the Appendix for the sect that the section of the seathers studied.

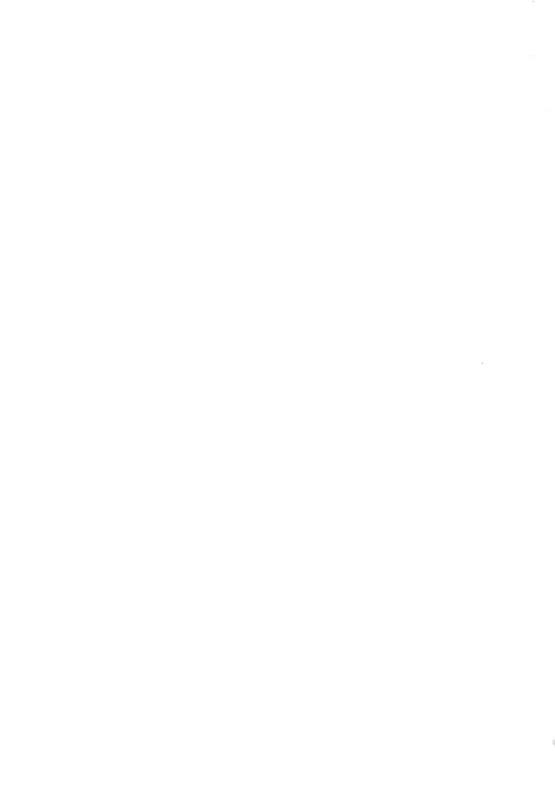
The average speed for each classific viion in 100 is type of highway for this study was as a linear

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| Non-Indiana | 7.5 | 21.4.4 | di. 4 |
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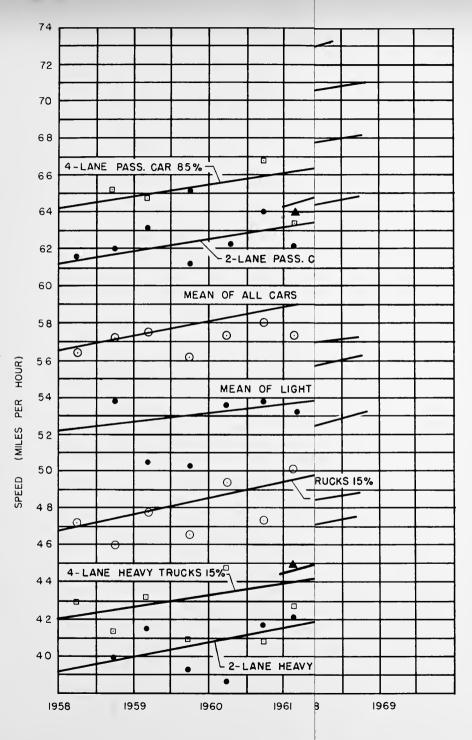
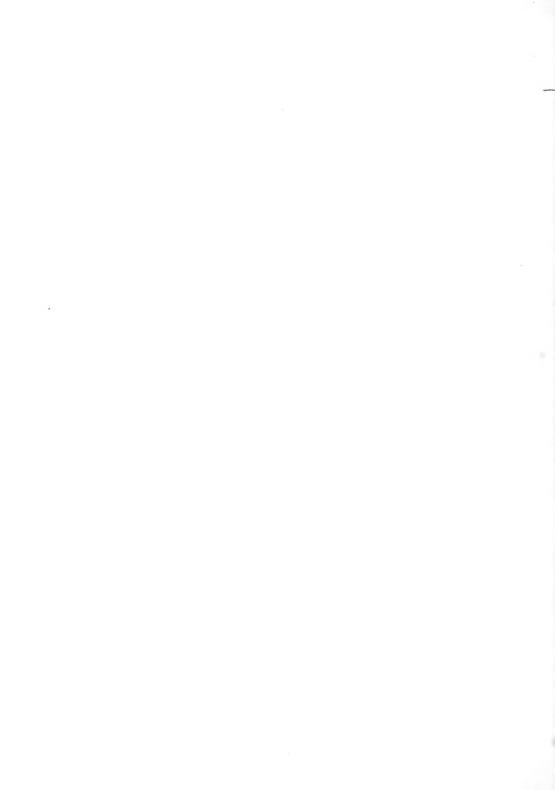


FIG.B-IN



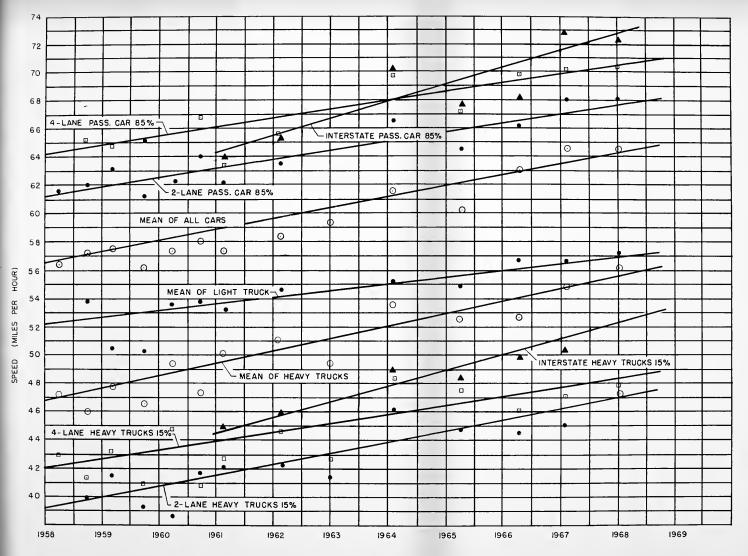


FIG.B-INDIANA RURAL SPEED TRENDS 1958-1968



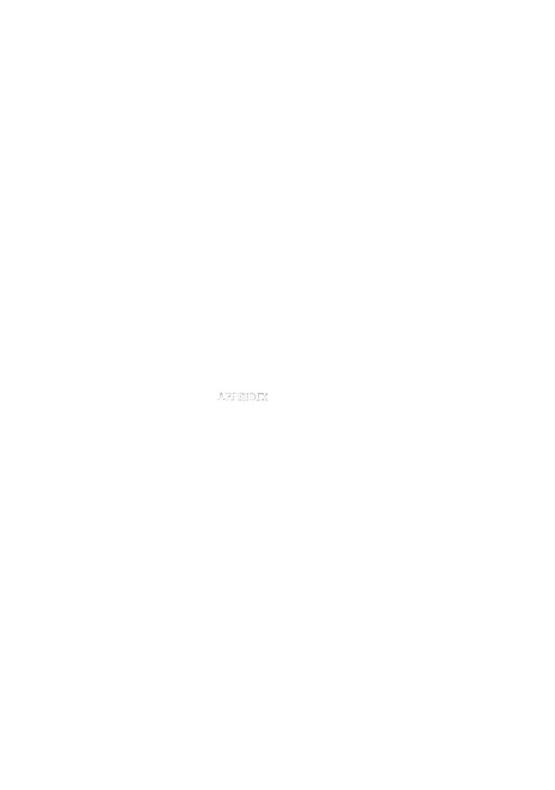
Summary and Conclusions

The average speeds in this study were found to be similar for passenger cars and 1.5 miles per hour faster for trucks than the results of the previous year.

The linear regression on the results of the past ten years proved that there has been a definite increase in speeds for all vehicle and highway classifications studied. The annual trend for different speed characteristics such as 85 percentiles, average speeds, and 15 percentiles for passenger cars, high prucks and nearly trucks on the trace classes of highways ranged between 0.% and 1.21 miles per hour increase annually. For all passenger cars the annual increase was found to be 0.85 miles per hour for average speed and for all heavy tracks the annual increase in average speed was found to be 0.87 miles ger hour.

It is interesting to note that although the speed limits for beavy trucks was increased by 15 m.p.; we the speed limits for entomobiles on the highways of Indiana a year and a hand ago, no large increase has occurred in actual truck speeds. The effect of the change in speed limits for heavy trucks on actual speed appears to be negligible. In other words, trucks travel so speeds their drivers consider safe, irrespective of maximum speed himts. The growing percentage of automobiles violating current expired speed limits especially on four-lane highways, tends to support a similar statement, namely that their drivers also select their travel speeds in the same number.





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TABLE 1 SPEED DATA

| Station | - | inay | ļ | I- 69 | _ : ' | Location | n 3.3 | Miles | 3.3 Miles South of S.R. | | 00 | | |
|--------------|-----------------------|-------|---------------------------------------|--------------|----------------|----------------|---|--------------------------|-------------------------|-------------------|--------------------------|------------|---------------------------------------|
| No. of Lanes | This | TAPE | Observation Surface Date July 2, 1968 | 1968 | | and Cem Lat | Fortland Cement Concrete Last Previous (Date | rete ous Obsa Date | | | port | No. CLoudy | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| | Time | မ | 7:30-11:30 M.M. | 30 A.M | | 1 | T | eur. | TO: TO W | A • M • - 12 : 47 | 47 F.M. | | |
| | | | | PASSEI | PASSENGER CARS | | | | | ľ | TRUCKS | | |
| | | · | LTA | Indi | Indiana | Non-Indiana | ndiana | | A11 | Less 5000 | Less than 5000 pounds | 5000 or | 5000 pounds or more |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| ijo | of vehicles obs. | 240 | 216 | 169 | 142 | 7.1 | 74 | 88 | 93 | 15 | 12 | 73 | 81 |
| Ave | Average speed (m.p.h. | 67.8 | 67.4 | 67.4 | 66.7 | 68.7 | 68.7 | 57.1 | 58.8 | 6.09 | 60.5 | 56.8 | 58.6 |
| Sta | Standard deviation | 6.63 | 6.40 | 6.55 | 90.9 | 6.79 | 6.84 | 6.02 | 6.54 | 8.73 | 9.89 | 5.12 | 5.54 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29. m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2u | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| il: | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 1.2 |
| eve Ter | 44 m.p.h. | 0.0 | 0.5 | 0.0 | 0.7 | 0.0 | 0.0 | 2.3 | 3.2 | 0.0 | 8.3 | 2.7 | 2.5 |
| 1+ : | 3 49 mopoho | 0.0 | 7.7 | 0.0 | 1.4 | 0.0 | 1.4 | 7.9 | 5.4 | 13.3 | 8.3 | 6.9 | 4.9 |
| 89 | 54 m.p.h. | 2.1 | 4.2 | 1.8 | 4.2 | ა მ | 4.1 | 31.8 | 20.4 | 26.7 | 16.7 | 32.9 | 21.0 |
| icl r l | - 59 m.p.h. | 10.8 | 9.3 | 11.2 | 9.2 | 6.6 | 9.5 | 61.4 | 54.8 | 1,0.0 | 58.3 | 65.8 | 54.3 |
| ųe. | 64, m.p.h. | 32.5 | 29.2 | 34.9 | 31.7 | 26.8 | 24.3 | 6.06 | 36.0 | 66.7 | 75.0 | 95.9 | 87.7 |
| ΛJ | 69 m.p.h. | 60.8 | 63.0 | 63.9 | 69.7 | 53.5 | 50.0 | 97.7 | 97.9 | 36.7 | 91.7 | 100.0 | 98.8 |
| 0 9 | 74 m.p.h. | 35.0 | 90.3 | 86.4 | 93.0 | 31.7 | 85.1 | 98.9 | 6.76 | 93.3 | 91.7 | 1 | 98.8 |
| 5 | 79 m.p.h. | 95.4 | 96.3 | 95.9 | 98.6 | 4.46 | 93.2 | 100.0 | 93.9 | 100.0 | 91.7 | 1 | 100.0 |
| | 84 m.p.h. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | • | 100.0 | ı | 100.0 | 1 | 1 |
| | № р. h. | | - | | | ı | | ı | 1 | 1 | | 1 | |
| No. | | - | 108 | • | 70 | • | 38 | ı | 64 | • | 6 | • | 7,0 |
| Ave | Average speed | • | 67.8 | , | 67.3 | ı | 9.89 | ı | 59.7 | 1 | 17.09 | 1 | 59.5 |
| No. | of vehicles obs. | 1 | 108 | | 72 | ı | 36 | 1 | 44 | • | 2 | 1 | 41 |
| Bor | Average speed | - | 67.0 | 1 | 66.1 | 1 | 68.9 | ì | 57.9 | 1 | 61.0 | • | 57.6 |
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| DATA |
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| SPEED |
| d |
| TABLE |

| Sta | Station | 2 Hig | Highway | 1-65 | 65 | | Location | | Mile | 1.0 Mile West of S.R. | В. 334 | | | | |
|----------|--------------|----------------------|-----------|---------------------|-----------|-----------|-----------------|---|-------|-----------------------|--------------|----------------|------------------|----------------|---------------|
| No. | No. of Lanes | This | bservatio | Observation Surface | 3e | Portlan | id Cemer Lat | Portland Cement Concrete Last Previous | Obs. | Observation (S | Speed (Speed | ther Report | Cloudy No. 85 | J. (| |
| | | | 1 1 | 10:00 A.M12:30 P.M. | 12:30 | P.M. | 1 1 | a Ei | Time | 1:30-4:10 P.M | 1 124 | | 1.1 | | |
| <u> </u> | | | | | PASSENGER | NGER CARS | | | | | | TRUCKS | | | |
| | | | | All | Ind: | Indiana | Non-Ir | Non-Indiana | | AII | Less 7 | than pounds | 5000 | pounds more | |
| | 0 | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | |
| | .io. | io. of vehicles obs. | 284 | 308 | 169 | 203 | 115 | 105 | 95 | 125 | 19 | 25 | 76 | 100 | |
| | Aver | Werage speed (m.p.h. | . 66.7 | 66.5 | 65.7 | 65.9 | 68.1 | 67.7 | 58.5 | 58.4 | 61.1 | 59.9 | 57.9 | 58.0 | |
| | Stan | Standard deviation | 7.26 | 00.9 | 7.42 | 90.9 | 6.77 | 5.70 | 5.13 | 5.74 | 7.67 | 8.20 | 4.11 | 4.92 | |
| | | 24 n.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | Эu | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| S | | 39 m.p.h. | 0.0 | 0.3 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 |
| -Te | | 44 m.p.h. | 0.0 | 0.3 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1 |
| rų: | | 46 мороно | 1.8 | 0.3 | 1.8 | 0.5 | 1.7 | 0.0 | 3.2 | 8.0 | 5.3 | 12.0 | 2.6 | 7.0 | 1 |
| ĐΛ | | 54 m.p.h. | 6.0 | 2.60 | 7.7 | 3.0 | 3.5 | 1.9 | 14.7 | 22.4 | 21.1 | 28.0 | 13.2 | 21.0 | 1 |
| TTV | | 59 -m.p.h. | 15.1 | 11.7 | 18.3 | 14.3 | 10.4 | 6.7 | 62.1 | 58.4 | 36.8 | 44.0 | 68.4 | 62.0 | Т |
| | | 64 m.p.h. | 35.6 | 34.1 | 41.4 | 37.9 | 27.0 | 26.7 | 87.4 | 86.4 | 57.9 | 72.0 | 7.46 | 0.06 | |
| | v l | 69 m.p.h. | 64.4 | 69.2 | 71.0 | 72.4 | 54.8 | 65.9 | 95.8 | 96.8 | 84.2 | 84.0 | 98.7 | 100.0 | |
| | ò | 74 m.p.h. | 88 | 92.9 | 88.0 | 95.1 | 87.0 | 88.6 | 100.0 | 99.2 | 100.0 | 96.0 | 0.00 | | 1 |
| | 5 | 79 h.p.h. | 96.5 | 98.7 | 96.5 | 0.66 | 96.5 | 98.1 | ı | 100.0 | 1 | 100.0 | , | | |
| | | 84 m.p.h. | 98.9 | 7.66 | 98.8 | 99.5 | 99.1 | 100.0 | ı | 1 | 1 | 1 | ı | • | |
| 1 | | ≪9 m.p.h. | 99.7 | 99.7 | 0.001 | 99.5 | 99.1 | • | • | 1 | 1 | ı | • | 1 | |
| un | • ON | of vehicles obs. | | 147 | ı | 100 | 1 | 74 | ı | 72 | ı | 16 | ı | 56 | T |
| Bo | Aver | Average speed | | 66.3 | 1 | 65.9 | ı | 67.0 | ı | 58.5 | ı | 59.9 | 1 | 58.1 | |
| pun | No. | of vehicles obs. | ı | 161 | 1 | 103 | 1 | 58 | 1 | 53 | ı | 9 | 1 | 44 | |
| Bou | | Average speed | ı | 66.7 | ı | 65.8 | ı | 8.2 | ı | 58.3 | 1 | 0.09 | ı | 57.9 | $\overline{}$ |



SPEED DATA m TABLE Weather

1.0 Mile East of Post Road

Portland Cement Concrete

Location

1-74

Highway

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Station

No. of Lanes

Present 58.6 pounds 0.0 6.2 20.0 0 0.0 4.6 57.9 9 9 5.57 92,3 100.0 27 or more 5000 Last 0.0 0.0 0.0 0.0 6.8 56.8 0.001 57.9 22.7 95.5 4.98 88 ı 9 Present Last Previous Observation (Speed Report Date August 23, 1967 5000 pounds 0 0.0 0.0 0 0.0 5.9 26.5 50.0 91.2 0.09 59.5 2.0 58.9 100,0 TRUCKS Less than 8 Last 96.0 0.0 0 0.0 8.0 24.0 80.0 88 0.96 0 0.0 0.00 1:30-4:00 P.M. 59.8 52.0 25 1 Present 56.6 0.76 0 0.0 0.0 0.0 0.0 25.2 86.9 59.1 58.5 6.1 100.0 57.7 28 7 7 Last 58.3 0 0 0 0.0 0.0 23.0 55.8 92,0 4.76 99.1 0.00 99.1 113 Time ı Present 0.0 52.6 & & 0 0.0 0.0 0.0 0.0 6,46 5.94 0.0 5.1 24.4 87.2 98.7 8 8 88.1 Non-Indiana 100,0 2 28 약 Last 88.5 0 0.0 0.0 0.0 0.0 0.0 3.5 12.6 50.6 95.4 97.7 7.40 28.7 82.3 87 PASSENGER CARS Present 65.9 0.0 0.0 0.0 7.0 5.4 12.4 40.3 92.2 98.4 9.66 65.4 99.9 2 99.7 243 120 123 Indiana Last 00.00 170 65.4 0 0 0.0 0.0 0.0 2.5 21.2 41.8 71.2 91.2 8:00-10:30 A.M 8 7.7 June 28, 1968 This Observation Surface Present 0.0 67.0 0.3 4.1 91.0 6.60 0 0.0 9.1 36.5 97.5 4 66 62.9 321 10.6 150 99 뒫 Last 6.2 18.3 2. 00 .33 0.0 0.0 0.0 0.0 0.8 64.2 88.3 96.5 9.66 257 Time Average speed (m.p.h. No. of vehicles obs. obs. No. of vehicles obs. Standard deviation vehicles ou.d.m OBSERVATION 24 m.p.h. m.p.h. m.p.h. т.р.h. 74 m.p.h. m.p.h. 29 m.p.h. m.p.h. mop.h. u•d•ш m.p.h. 69 m.p.h. 84 m.p.h. Average speed Average speed 54 ofo Tess JO J.E rpeur No gnilevert of vehicles All vehicles pumog



| i 1 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|-------------|-------------|----------------------|-----------------------|--------------------|-----------|-----------|-----|-----|--------------|---------------|-----------------|-----------------|------|---------------|-------|------|-----------|-----------|----------------------|---------------|----------------------|---------------|
| mdy 85) | | 00 pounds | Present | 86 | 57.3 | 19°η | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 27.6 | 62.2 | 6.96 | 100.0 | 1 | 1 | 1 | 1 | 36 | 57.5 | <i>2</i> 9 | 1.77 |
| Cloudy No. 85 | | 5000 | Last | 109 | 55.6 | 5.98 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 | 12.8 | 38.5 | 72.5 | 96.3 | 99.1 | 100.0 | 1 | 1 | , | 1 | 1 | 1 | |
| ther | TRUCKS | Less than | Present | 29 | 62.2 | 5.33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 06.9 | 24.1 | 65.5 | 93.1 | 100.0 | 1 | 1 | 1 | 16 | 62.4 | 13 | 62.0 |
| Nea Nea (Speed 3, 1967 L5 A.M. | | Less | Last | 51 | 58.5 | 6.53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.3 | 23.8 | 52.4 | 85.7 | 95.2 | 100.0 | ı | , | - | ı | , | 1 | ı |
| Concrete Previous Observation (Speed Date August 23, 1967 Time 8:50-11:15 A.M. | | All | Present | 127 | 58.4 | 5.25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 22.3 | 53.4 | 89.8 | 98.4 | 100.0 | | | | 52 | 59.0 | 75 | 58.0 |
| .5 Miles rete ous Obs Date | | | Last | 130 | 56.1 | 6.15 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 13.1 | 36.2 | 69.2 | 9.46 | 98.5 | 0.001 | 1 | 1 | • | 1 | ı | t | 1 |
| Con | | Non-Indiana | Present | 169 | 67.2 | 5.72 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 11.2 | 27.8 | 65.1 | 92.3 | 98.2 | 100.0 | 1 | 81 | 67.7 | 88 | 8.99 |
| Location Portland Cement Last | | Mon-In | Last | 125 | 68.3 | 7.02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 8*1 | 8*8 | 9.62 | 52.8 | 82.4 | 96.8 | 99.2 | 100.0 | 1 | t | _ | |
| Portla | PASSENGER CARS | Indiana | Present | 154 | 66.3 | 6.46 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.3 | 3.9 | 11.7 | 37.7 | 69.5 | 91.6 | 98.1 | 100.0 | 1 | 65 | 66.7 | 89 | 0.99 |
| 55 1968 0 P.M. | PASSE | Ind | Last | 145 | 4.79 | 6.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 8.3 | 33.1 | 8.49 | 9.78 | 6.76 | 100.0 | 1 | | • | 1 | 1 |
| Highway I-65 Observation Surface Date June 27, 1968 Time 1:00-3:30 P.M. | | All | Present | 323 | 66.8 | 6.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 2.8 | 11.5 | 32.5 | 67.2 | 92.0 | 98.1 | 100.0 | 1 | 146 | 67.2 | 177 | 4.99 |
| way rvatto e | | | Last | 270 | - | 6.50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,0 | 3.7 | 8.5 | 31.5 | 59.3 | 85.2 | 4.76 | 9.66 | 100.0 | 1 | ı | • | ı |
| danes This | | | OBSERVATION | No. of vehicles obs. | Average speed (m.p.h. | Standard deviation | 24 m.p.h. | 29 m.p.h. | | | isn | 7 5 49 mop•h• | о о о 54 m.p.h. | ਰੀ ਜੀ 59 m.p.h. | ξO | ь ф 69 m.p.h. | | | 84 m.p.h. | 39 m.p.h. | No. of vehicles obs. | Average speed | No. of vehicles obs. | Average speed |
| Station No. of L | Ļ | | | | | | | | | s | 3 7 6 | ţų | θΛ | TT | 1 | | | | | 7 | un | Bo | pu | noe |



TABLE 5 SPEED DATA

| 5 Highway | Way | U.S. | . 31 | + [edmo 4 | Location | 1 | Miles | 1.2 Miles South of | S.R | 38 | ار دوران | |
|----------------------|-------------|---|-------------------|----------------|------------------|---------|-------|---|-------------|-------------------------------|-------------|----------------------|
| bser Date Time | ryttic e | S Observation 3 currace Date June 26, 1968 Time 1:30-4:30 P.M | e 1968 P.M. | Aspnalt | Asphalt Concrete | Previ | | Observation (, August 22, 22, 22, 20, 2:20-5:00 | 1 24 8 | Meather Speed Report No. 1967 | No. 85 | |
| | | - | PASSE | PASSENGER CARS | | | | | | TRUCKS | | |
| | | A11 . | Ind | Indiana | Non-Indiana | ndiana | | 41. | Les 5000 | Less than 5000 pounds | 5000 er | 00 pounds or more |
| | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| ops• | 243 | 277 | 201 | 227 | 742 | 50 | 101 | 85 | 748 | 38 | 53 | 47 |
| m.p.h. | 65.0 | 64.7 | 64.5 | 64.3 | ή. 7 9 | 2.99 | 55.9 | 56.4 | 57.8 | 59.1 | 53.0 | 54.3 |
| | | | 6.99 | 7.11 | 6.08 | 6.19 | 7.58 | 6.75 | 7.94 | 6.92 | 6.51 | 5.83 |
| . | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| - 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 0 | 0.1 | 0.0 | ٥.4 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 |
| | 0.8 | 1.1 | 1.0 | 1.3 | 0.0 | 0.0 | 7.9 | 5.9 | 6.3 | 2.6 | 4.6 | 8.5 |
| - 1 | 2.1 | 2.2 | 2.5 | 2.0 | 0.0 | 2.0 | 25.7 | 16.5 | 20.8 | 10.5 | 30.2 | 21.3 |
| | 4.9 | 6.1 | 6.0 | 7.1 | 0.0 | 2.0 | 47.5 | 37.7 | 33.3 | 23.7 | 60.14 | 48.9 |
| | 17.3 | 20.6 | 19.9 | 22.0 | 4.3 | 14.0 | 67.3 | 71.8 | 54.2 | 52.6 | 79.3 | 87.2 |
| | 45.3 | 9.64 | 143.3 | 52.0 | 31.0 | 40.0 | 88.1 | 87.1 | 77.1 | 76.3 | 98.1 | 7.56 |
| | 76.9 | 76.9 | 79.1 | 7.67 | 66.7 | 64.0 | 93.0 | 96.5 | 95.8 | 92.1 | 100.0 | 100.0 |
| | 93.4 | 94.2 | 94.5 | 93.8 | 33.1 | 96.0 | 100.0 | 100.0 | 100.0 | 100.0 | ı | 1 |
| 1 | 97.5 | 98.2 | 97.5 | 97.8 | 97.6 | 100.0 | ı | 1 | ١ | ı | ١ | ı |
| - } | 2.66 | 99.2 | 99.5 | 99.1 | 9.76 | ı | 1 | 1 | ١ | 1 | ı | 1 |
| | 0.00 | 100.0 | 0.00 | 100.0 | 100.0 | • | ١ | | 1 | 1 | ı | ı |
| ops. | - | 124 | 1 | 106 | ı | 18 | ı | ର | ı | 13 | • | 16 |
| | • | 65.0 | 1 | 64.6 | • | 67.7 | 1 | 56.8 | • | 58.9 | 1 | 55.1 |
| ops | ı | 153 | ı | 1.2 | 1 | 32 | 1 | 56 | 1 | 25 | • | 31 |
| | ı | 64.4 | | 64.1 | ı | 65.1 | | ر ر ر | | 200 | | R 0 R |



TABLE 6 SPEED DATA

| | | nds | Present | 58 | 54.3 | 5.76 | 0.0 | 0.0 | 0.0 | 7 | 3.5 | ત | ۲. | 9 | 3 | 0 | ı | ı | | ı | 82 | 56.5 | 30 | 52.3 |
|--|----------------|--------------------------|-------------|----------------------|-----------------------|--------------------|-----------|-----------|-------------|-----|--------------|----------------|-------|------|------|-------|-------------|-------|-----------|----------|----------------------|---------------|----------------------|----------------|
| 835 | | OC pounds | | | | _ | _ | | | _ | | 17.2 | 51.7 | 77.6 | 98.3 | 100.0 | | | | | ., | 2 | ň | 52 |
| Cloudy No. | | 5000 | Last | 90 | 55.9 | 5.78 | 0.0 | 0.0 | 0.0 | 111 | 4.4 | 12.2 | 35.6 | 70.0 | 95.6 | 98.9 | 100.0 | ı | ١ | ı | • | ' | 1 | 1 |
| port | TRUCKS | Less than 5000 pounds | Present | 12 | 59.7 | 6.89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 25.0 | 41.7 | 75.0 | 100.0 | 1 | • | 1 | 1 | 4 | 58.8 | 8 | 60.1 |
| . S.R. 28 Veatlon (Speed Re. 26, 1967 A.M12:50 | | 1000 5000 | Last | 20 | 58.4 | 7.99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 | 1,0.0 | 55.0 | 30.0 | 90.0 | 100.0 | ı | ı | - | ı | t | 1 | ı |
| 1.0 Mile East of S.R. whous Observation (Sp Date August 26, Time 10:30 A.M. | | 11. | Present | 70 | 55.3 | 6.25 | 0.0 | 0.0 | 0.0 | 1.4 | 2.9 | 15.7 | 47.1 | 71.4 | 94.3 | 100.0 | ı | ı | ı | ı | 32 | 56.8 | 38 | 54.0 |
| O Mile Fous Obse | | | Last | 110 | 56.4 | 6.27 | 0.0 | 0.0 | 0.0 | 6.0 | 3.6 | 12.7 | 36.4 | 67.3 | 92.7 | 97.3 | 0.00 | ı | ı | ı | 1 | 1 | • | 1 |
| 1 10 1 | | lon-Indiana | Present | 212 | 67.1 | 5.33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 7.1 | 30.4 | 6.79 | 92.9 | 98.2 | 100.0 | 1 | 43 | 68.5 | 69 | 66.3 |
| Location tic Concr Last | | -uol | Last | 125 | 0.99 | 5.36 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 10.4 | 35.2 | 75.2 | 96.8 | 98.4 | 100.0 | 1 | ı | | 1 | ı |
| Location Asphaltic Concrete Last Pr | PASSENGER CARS | Indiana | Present | 961 | 65.1 | 5.45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 12.2 | 48.5 | 77.5 | 6.96 | 99.5 | | 100.0 | 105 | 65.8 | 91 | 4.43 |
| 52 .ce 1968 .D.M. | PASSA | Ind | Last | 124 | 65.4 | 6.14 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 4.8 | 12.1 | 38.7 | 75.0 | 96.0 | 100.0 | ı | 1 | • | ı | • | 1 |
| Highway U.S. 52 Observation Surface Date June 28, 19 Time 1:00-3:30 F | | LÍV | Present | 308 | 65.9 | 5,48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,3 | 10.4 | 41.9 | 74.0 | 95.5 | 0.06 | 99.7 | 100.0 | 148 | 9.99 | 160 | 65.2 |
| na.7 Type of | | 4 | Last | 549 | 65.8 | 5.76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.8 | 4.4 | 11.2 | 37.0 | 75.1 | 4.96 | 99.2 | 100.0 | 1 | 1 | 1 | ı | • |
| Station 6 Highway No. of Lanes This Observation Pate The | | | OBSERVATION | .o. of vehicles obs. | Average speed (m.p.h. | Standard deviation | 24 m.F.n. | 29 mepohe | % 34 m.p.h. | ŢŢ | ЭΛĘ | H to 49 mopoho | SU | ŢoŢ | ye. | | o 74 mep.h. | | 84 m.p.h. | Symop.h. | No. of vehicles obs. | Average speed | No. of vehicles obs. | Avera je speed |
| Sta. | L | | | | | | | | | S | 3 Ţ € | ţŲ | ÐΛ | ΓĮV | - | | | | | 18 | un | Bc | pun | rog |



TABLE 7 SPEED DATA

| | | | pounds more | Present | 86 | 55.2 | 7.32 | 0.0 | 0.0 | 0.0 | 1.2 | 12.8 | 22.1 | 40.7 | 68.6 | 91.9 | 98.8 | 100.0 | • | ı | 1 | 43 | 50.9 | 43 | 59.4 |
|-------------------|--|-----------|----------------|-------------|----------------------|-----------------------|--------------------|-----------|-----------|-----------|-----|-------------|------|---------------|-------------------|-----------------|-------------|-------------|------------|------------|-----------|----------------------|---------------|-----------------------|----------------|
| | No. Fair | | 5000 or | Last | 80 | 52.6 | 6.77 | 0.0 | 0.0 | 0.0 | 4.8 | 12.5 | 30.0 | 55.0 | 86.3 | 97.5 | 100.0 | 1 | 1 | 1 | - | • | • | 1 | 1 |
| 2 | Cather Caster Washing 1967 | TRUCKS | Less than | Present | 16 | 57.0 | 6.56 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 37.5 | 56.3 | 87.5 | 100.0 | ı | 1 | 1 | 1 | 9 | 57.0 | 10 | 57.0 |
| S.R. | 7cs (Speed 1967 P.M. | I | Less | Last | 16 | 54.3 | 6.78 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 18.8 | 43.8 | 75.0 | 93.8 | 100.0 | t | ı | 1 | - | 1 | | 1 | - |
| 1.0 Mile North of | cment Concrete Last Frevious Observation (Spee Date August 28, 196 | | A11 | Present | 102 | 55.4 | 7.21 | 0.0 | 0.0 | 0.0 | 1.0 | 10.8 | 20.6 | 1,0.2 | 66.7 | 91.2 | 0.66 | 100.0 | | 1 | | 64 | 51.6 | 53 | 59.0 |
| O Mile | rete lous Obse Date # | | 1 | Last | 96 | 53.0 | 6.79 | 0.0 | 0.0 | 0.0 | 4.2 | 11.4 | 28.1 | 53.1 | 84.4 | 96.9 | 100.0 | ı | 1 | 1 | - | • | • | 1 | ı |
| | unt Concrete it Previous (Date Time | | ndiana | Present | 100 | 65.1 | 5.80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 17.0 | 48.0 | 79.0 | 93.0 | 0.79 | 0.66 | | 74 | 65.0 | 53 | 65.2 |
| Location | 0 | | Jon-Indiana | Last | 110 | 64.2 | 5.70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 4.6 | 16.4 | 49.1 | 84.6 | 4.96 | 100.0 | ı | 1 | ı | 1 | 1 | ı |
| | Portland | IGER CARS | Indiana | Present | 152 | 65.9 | 6.31 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 3.3 | 6.6 | 19.7 | 66.5 | 88.8 | 95.4 | 98.0 | 100.0 | | 83 | 65.9 | 69 | 62.8 |
| 41 | 1968 1968 30 P.M. | PASSENGER | Ind | Last | 87 | 63.2 | 6.30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 9.2 | 26,4 | 59.8 | 83.9 | 95.4 | 100.0 | | • | t | 1 | | 1 |
| U.S. | Observation Surface Date July 1, 1968 Time 2:00-4:30 P.M. | | ALL | Present | 252 | - 1 | 6.20 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 2.0 | 7.1 | 13.7 | 59.1 | 84.9 | 94.4 | | 9.66 | 100.0 | 130 | 63.7 | 122 | 63.8 |
| way | rvatio | | ì | Last | 197 | 63.8 | 5.93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 9.9 | 20.8 | 53.8 | 84.3 | 95.9 | 100.0 97.6 | ' | | 1 | 1 | 1 | _ |
| 1on 7 Highway | No. of Lanes This Obser's Date The Time | | | OBSLRVATION | No. of vehicles obs. | Average speed (m.p.h. | Standard deviation | 24 m.p.h. | 29 m.p.h. | 74 m.p.h. | | ST THE BASE | | 6 8 54 m.p.h. | ੍ਰੀ ਨੂੰ 59 m.p.h. | eh o 64, m.p.h. | d 69 m.p.h. | 0 74 mep.h. | 79 m.p.h. | 84 mg noho | Sy m.p.h. | No. of vehicles obs. | Average speed | ilo. of vehicles obs. | AVera je speed |
| Station | No. | | | | | | | | | | S | =T: | trie | 9.0 | LLV | | | | | | 200 | und | ЭĦ | pun | |



TABLE 8 SPEED DATA

| | | | | ds | ent | 76. | 57.1 | 6.82 | 0 | 0 | 0 | ~ | 0 | 5 | 6 | 9 | 80 | 7 | 0 | | | | | 0 | |
|---------------------------|--|-------------------|----------------|--------------------------|-------------|----------------------|-----------------------|--------------------|-----------|-----------|-----|------|-----|----------------|---------------|----------------|----------------|-------------|-----------|-----------|-------------|-----------|----------------------|---------------|---|
| | F. | | | pounds | | 7 | | | 0.0 | 0.0 | 0.0 | 1.3 | 4.0 | 14.5 | 32.9 | 52.6 | 90.8 | 94.7 | 100.0 | | 1 | 1 | 56 | 57.0 | |
| | No. Pair | | | 5000 | Last | 65 | 54.2 | 5.72 | 0.0 | 0.0 | 0.0 | 1.5 | 7.7 | 13.9 | 52.3 | 81.5 | 98.5 | 93.5 | 0.001 | 1 | ١ | ı | | | - |
| 9 | ather Report | | TRUCKS | Less than 5000 counds | Present | 25 | 57.6 | 8.26 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | 16.0 | ₹.0 | 52.0 | 76.0 | 92.0 | 100.0 | ı | • | • | 6 | 56.1 | |
| londik | 79eed () | P M | | Les 5000 | Last | 35 | 56.0 | 6.17 | 0.0 | 0.0 | 0.0 | ۲. ۲ | 3.1 | 4.6 | 6.9 | 62.5 | 6.90 | 100.0 | , | 1 | | 1 | | ı | |
| 1.0 Mile West of Klondike | Observation August 17 | 1:10-3:10 | | ALL | Present | 101 | 57.3 | 7.2 | 0.0 | 0.0 | 0.0 | 1.0 | 5.0 | 14.9 | 33.7 | 52.5 | 87.1 | 94.1 | 100.0 | ı | • | | 35 | 56.8 | |
| Mile | Obs | Time | | | Last | 26 | 54.8 | 5.90 | 0.0 | 0.0 | 0.0 | 2.1 | 6.2 | 12.4 | 50.5 | 75.3 | 6.76 | 0.66 | 0.00 | 1 | 1 | ı | - | - | |
| l | Concrete Last Previous Date | H | | diana | Present | 113 | 66.2 | 5.34 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 8.1 | 7.1 | 34.5 | 73.5 | 95.6 | 98.2 | 100.0 | | 45 | 67.3 | |
| Location | ರ | | | Von-Indiana | Last | 133 | 66.2 | 6.81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 5.3 | 11.3 | 38.4 | 69.2 | 90.2 | 97.0 | 100.0 | • | 1 | ı | |
| 1 | Asphaltic | P.M. | PASSENGER CARS | Indiana | Present | 153 | 64.3 | 5.38 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 5.9 | 15.7 | 54.9 | 78.4 | 0.86 | 98.7 | | | 7.2 | 64.4 | |
| 52 | 9.68 | -12:00 | PASSE | Indi | Last | 147 | 64.0 | 6.64 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 2.0 | 7.5 | 23.1 | 54.4 | 80.3 | 94.6 | 69.3 | 0.001 | | 1 | 1 | |
| U.S. | Observation Surface Date July 1, 1968 | 9:30 A.M12:00 P.M | | All | Present | 256 | 65.1 | 5.74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 4.1 | 12.0 | 46.2 | 76.3 | 0.76 | 98.5 | | | 122 | 65.5 | |
| ay. | Type | l | | 4 | Last | 280 | 65.0 | 6.30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.4 | 6.4 | 17.5 | 16.8 | 75.0 | 92.5 | 93.2 | 100.0 100.0 | ı | ı | • | |
| n 8 Highway | No. of Lanes This Obser' Date | Time | | | OBSERVATION | io. of vehicles obs. | Average speed (m.p.h. | Standard deviation | 24 m.p.h. | 29 m.p.h. | | | nsı | 1 to 49 mop.h. | 6 6 54 m.p.h. | od - 59 m.p.h. | 0 64, m. p. h. | d 69 m.p.h. | 74 m.p.h. | 79 m.p.h. | 84 m. v. h. | 39 m•p•h• | No. of vehicles obs. | Average speed | |
| Station | No. of | | | | | := | ¥ | Ś | _ | | 2.0 | | | | ÐΛ | | | ل ۱۰ | | j) | | į | un | - | 1 |



TABLE 9 SPEED DATA

| No. of Lanes This Observation Surface Portland Coment Concrete Last Previous Date June 21, 1968 Date The 9:00-11:30 A.M. PASSENSER CARS | This Observation Coment Concrete This Observation Concrete Last Previous Date June 21, 1968 Time 9:00-11:30 A.M. PASSBIRER CARS | A.M. Teding CARS | Portland Coment Cor Last Pro A.M. | Portland Coment Cor Last Pre A.M. | tland Cement Cor | Pre | Pre | 000 54 | | reference Weather Wolf Report Date August 17, 1967 Time 8:45-11:39 A.M. TRUCKS | Veat Veat | ther Report RUCKS | No. F81. | spunod |
|--|---|------------------|---|---|------------------|---------|-------|---------|------|--|---|-------------------------|----------|---------|
| OESLIWATION Last Fresent Last i | Last Present Last | Present Last | Last | | L | Present | Last | Present | Last | Present | Last | Present | Last | Pre ent |
| . o. of vehicles obs. 228 247 118 | obs. 228 247 | 247 | | 118 | | 145 | 110 | 102 | 137 | 106 | 53 | 40 | 84 | 99 |
| | (m.p.h. 59.6 59.5 58.6 | 59.6 59.5 58.6 | 58.6 | | f | 58.7 | 60.6 | 50.7 | 2,83 | 53.5 | 50.2 | 52.8 | 47.9 | 54.0 |
| ation 5.50 7.21 6.55 7 | on 6.50 7.21 6.55 7 | 7.21 6.55 7 | 6.55 7 | 7 | 7 | .91 | 6.33 | 5.91 | 6.92 | 6.13 | 6.61 | 7.22 | 7.00 | 5.37 |
| 24 m.F.h. 0.0 0.0 0.0 0.0 0 | 0.0 0.0 0.0 | 0.0 0.0 | 0.0 | _ | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 mepehe 0.0 0.0 0.0 0.0 0 | 0.0 0.0 0.0 | 0.0 0.0 | 0.0 | | 0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 |
| 34 m.p.h. 0.0 0.0 0.0 0.0 0 | m.p.h. 0.0 0.0 0.0 | 0.0 0.0 | 0.0 | | 0 | 0.0 | 0.0 | 0.0 | 2.9 | 6.0 | 1.9 | 2.5 | 3.6 | 0.0 |
| 39 mopoho 0.0 0.4 0.0 0.0 | m.p.h. | 0.0 0.0 | 0.0 | - | 0 | 0.0 | 0 | 0.0 | 10.2 | 1.9 | 7.6 | 5.0 | 11.0 | 0 |
| d 44 me 12. ho | mepoho 1.3 2.0 1.7 | 2.0 1.7 | 1.7 | _ | Ϋ́ | 3.5 | 0.9 | 0.0 | 24.1 | 7.6 | 20.8 | 10.0 | 26.7 | 6.1 |
| 49 mepehe 6.6 9.3 9.3 13.1 | m.p.h. 6.6 9.3 9.3 | 9.3 | 9.3 | | 13 | ٦. | 3.6 | 3.92 | 48.9 | 22.6 | 39.6 | 25.0 | 54.8 | 21.2 |
| 9 54 me poh 20.2 24.7 25.4 30 | т.р.л. 20.2 24.7 25.4 | 24.7 25.4 | 25.4 | | 30 | 30.3 | 14.6 | 16.7 | 86.9 | 55.7 | 79.3 | 57.5 | 2.16 | 54.6 |
| 59 m.p.h. 46.1 h7.0 50.9 | 11.p.h. 46.1 47.0 50.9 | 1,7.0 50.9 | 50.9 | | 2 | 51.0 | 40.9 | 41.2 | 94.2 | 82.1 | 92.5 | 82.5 | 95.2 | 81.8 |
| 64, m.p.h. 78.5 75.7 83.1 | m.p.h. 78.5 75.7 83.1 | 75.7 83.1 | 83.1 | - | 1 | 777.9 | 73.6 | 72.6 | 99.3 | 98.1 | 100.0 | 97.5 | 98.8 | 98.5 |
| 4 64 m.p.h. 94.7 92.3 97.5 90 | 94.7 92.3 97.5 | 92.3 97.5 | 97.5 | | 6 | 90.3 | 91.8 | 95.1 | 000 | 100.0 | ı | 100.0 | 100.0 | 100.0 |
| 74 mep.h. 99.1 99.2 99.2 98 | 99.1 99.2 99.2 | 99.2 99.2 | 2.66 | | 9 | 98.6 | 1.66 | 100.0 | ١ | 1 | ı | 1 | | ı |
| 79 m.p.h. 100.0 99.6 100.0 99 | m.p.h. 100.0 99.6 100.0 | 99.6 100.0 | 99.6 100.0 | | 66 | 99.3 | 100.0 | 1 | 1 | ı | ı | • | - | ı |
| 84 30.70.l 100.0 - 100.0 | | 1 | 1 | | 100 | 0 | 1 | 1 | 1 | 1 | 1 | • | ı | |
| Sy mepehe | m.p.h. | 1 | 1 | l l | ' | | | 1 | ı | | 1 | 1 | - | 1 |
| No. of vehicles obs 121 - 60 | obs 121 - | 121 | ı | |), | | 1 | 61 | • | 09 | • | 21 | - | 8 |
| Average speed - 60.7 - 60.3 | - 60.7 | 1 | 1 | | 9 | m | 1 | 61.2 | • | 54.0 | 1 | 52.7 | • | 54.8 |
| of Vehicles obs 125 _ 8 | vehicles obs 125 _ | 125 - | 1 | | | 84 | 1 | 4,1 | 1 | 746 | 1 | 19 | ı | 27 |
| Avery a speed - 58.5 - 5 | - 58.5 - | - | - | - | _ L \ | 57.8 | t | 59.9 | ١ | 52.9 | , | 52.9 | - | 52.9 |



TABLE 10 SPEED DATA

| | | | | | | , | | | - | | _ | | | | | | _ | | | | - | | | | |
|-----------------------------|---|----------------|------------------------|-------------|----------------------|-----------------------|--------------------|-----------|-----------|-----|-----|------|--------------|---------------|----------------|-------------|-------------|-----------|-------------|-------|-----------|----------------------|---------------|----------------------|---------------|
| | 85) | | 5000 pounds or more | Present | 45 | 54.6 | 6.78 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 26.7 | 148.9 | 75.6 | 91.1 | 0.00.0 | 1 | 1 | 5 | 1 | 23 | 56.6 | 22 | 52.5 |
| | Fair - 85 | : : | 5000 | Last | Ltį | 5,45 | 5.74 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 10.6 | 44.7 | 70.2 | 93.6 | 0.000 0.000 | 1 | 1 | • | ١ | • | 1 | 1 | |
| ers | 7 1 1 | TRUCKS | Less than | Present | 33 | 55.6 | 8.36 | 0.0 | 0.0 | 0.0 | 0.0 | 12.1 | 24.2 | 48.5 | 60.6 | 87.9 | 0.76 | 0.76 | 100.0 | • | 1 | 20 | 54.2 | 13 | 57.7 |
| Chalm | Wea (Speed), 1967 30 A.M. | H | Less 5000 | Last | 37 | 57.8 | 9.60 | 0.0 | 0.0 | 2.7 | 5.4 | 8.1 | 16.2 | 37.8 | 56.3 | 70.3 | 89.2 | 97.3 | 100.0 | ı | 1 | 1 | ı | 1 | , |
| 2.0 Miles South of Chalmers | Veather Veather Last Previous Observation (Speed Report Date August 21, 1967 Time 9:00-11:30 A.M. | | A11 | Present | 78 | 55.0 | 7.50 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 25.6 | 118.7 | 69.2 | 89.7 | 7.86 | 98.7 | 100.0 | ı | ı | 143 | 55.5 | 35 | 4.40 |
| Miles | ous Obse Date | | Ą | Last | 97 | 56.5 | 7.72 | 0.0 | 0.0 | 1.2 | 2.4 | 14.8 | 13.1 | 41.7 | 64.3 | 83.3 | 5.76 | 93.8 | 100.0 100.0 | 1 | 1 | 1 | ı | 1 | ı |
| | t Previou | | diana | Present | 4.1 | 64.2 | 7.43 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 12.2 | 22.0 | 8.84 | 73.1 | 92.7 | 97.6 | 100.0 | | 23 | 63.7 | 13 | 64.8 |
| Location | Asphaltic Concrete | | Non-Indiana | Last | 54 | 65.2 | 6.78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 18.5 | 0.03 | 79.5 | 88.9 | 96.3 | 98.2 | 0.001 | 1 | 1 | 1 | , |
| _ | Asphalt | PASSENGER CARS | Indiana | Present | 245 | 62.6 | 7.97 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 4.1 | 15.5 | 32.7 | 64.1 | 32.5 | 91.8 | 97.1 | 98,8 | 99.2 | 11,0 | 61.4 | 105 | 64.2 |
| 43 | .ce 1968) P.M. | PASSEI | Indi | Last | 195 | 62.3 | 9.34 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 7.6 | 18.5 | 35.4 | 62.1 | 31.0 | 90.8 | 6.96 | 0.66 | 0.66 | 1 | - | 1 | , |
| U.S. | Observation Surface Date June 21, 1968 Time 2:00-5:00 P.M. | | ALL | Present | 286 | 62.8 | 7.90 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 3.8 | 15.0 | 31.1 | 61.9 | 31.3 | 92.0 | 97.2 | 0.66 | 99.3 | 163 | 61.7 | 123 | 64.3 |
| V.ER. | TAPEO | | 1 | Last | 549 | 65.9 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | J.6 | 6.41 | 81.7 | 4.69 | 80.7 | 90.4 | 8 96 | 98.8 | 2 60 | - | ١ | ı | 1 |
| ton 10 Highway | anes Inis | | | OBSERVATION | No. of vehicles obs. | Average speed (m.p.h. | Standard deviation | 24 m.p.h. | 29 m.p.h. | | | uei | 17 49 mop.h. | 9 6 54 m.p.h. | od 1 59 m.p.h. | ch of m poh | d 69 m.p.h. | 74 m.p.h. | 79 m.p.h. | | Sy m.p.h. | No. of vehicles obs. | Average speed | No. of vehicles obs. | Average speed |
| Station | No. | | <u> </u> | | | | | | | | S | Je: | ţų | ΘΛ | תו | Ī | | | | | | un | Bo | pun | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stat | Station | 11 Highway | way | U.S. | . 31 | | Locat1on | | 3.0 Miles | South of Rochester | Roche | ster | | |
|------|--------------|------------------------|---------------|---|------------------------|----------------------------|-----------------|------------------------|------------------|---|--------------|--------------------------|--------|------------------------|
| No. | No. of Lanes | This | TVECTO e I | Observation Surface Date June 24, 19 Time 1:45-4:00 P | 1968 1968 0 P.M. | Asphaltic Concrete Last Pr | ic Conc. Las | rete st Previo D | ous Obso Date | Last Previous Observation (s Date August 21, Time 1:30-3:30 | Wes Speed | Report | No. S5 | |
| L | 1 | | | | PASSE | PASSENGER CARS | | | | | | TRUCKS | | |
| | | | | All | Ind | Indiana | Non-Ir | Non-Indiana | | ננא | Lest 5000 | Less than 5000 pounds | 5000 | 5000 pounds or more |
| |) | OESERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| | No. | No. of vehicles obs. | 252 | 282 | 161 | 209 | 61 | 73 | 16 | 98 | 33 | 45 | 58 | 53 |
| | Ave | Average speed (m.p.h.) | 62.6 | 61.8 | 62.5 | 61.2 | 63.1 | 63.5 | 55.0 | 54.6 | 56.2 | 54.6 | 54.3 | 54.6 |
| | Star | Standard deviation | 7.08 | 7.09 | 7.24 | 96.9 | 6.57 | 7.21 | 5.81 | 6.85 | 5.66 | 8.34 | 5.83 | 5.36 |
| | | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 29 mepohe | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 2.2 | 0.0 | 0.0 |
| | ∂u | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 4.4 | 0.0 | 0.0 |
| 8: | _ | 39 m.p.h. | 0.0 | ₽ • 0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 6.7 | 0.0 | 0.0 |
| 3Te | | | 1.2 | 1.3 | 1.1 | 1.9 | 1.6 | 1.4 | 6.6 | 4.1 | 3.0 | 6.7 | 8.6 | 1.9 |
| ţŲŧ | | 3 49 mopoho | 3.6 | 14.6 | 3.7 | 5.3 | 3.3 | 2.7 | 15.4 | 18.4 | 12.1 | 22.2 | 17.2 | 15.1 |
| λ | | 54 m.p.h. | 9 11 | 12.8 | 13.6 | 14.4 | 6.6 | 8.2 | 42.9 | 49.0 | 36.4 | 46.7 | 46.6 | 50.9 |
| LLV | Loi L 1 | 59 m.p.h. | 32.1 | 32.2 | 32.5 | 34.9 | 31.2 | 24.7 | 76.9 | 75.5 | 66.7 | 66.7 | 82.8 | 83.0 |
| | | 6/4 m.p.h. | 59.1 | 5.69 | 59.2 | 74.2 | 59.0 | 54.8 | 96.7 | 93.9 | 6.06 | 91.1 | 100.0 | 96.2 |
| | v l | 69 m.p.h. | 85.3 | 47.06 | 85.9 | 90.9 | 33.6 | 89.0 | 100.0 | 100.0 | 100.0 | 100.0 | 1 | 100.0 |
| | 0 9 | | 96.0 | 97.5 | 95.3 | 98.5 | 98.4 | 5.40 | 1 | ı | ı | 1 | 1 | 1 |
| | 8 | 79 m.p.h. | 98.8 | 98.2 | 4.86 | 0.66 | 100.0 | 95.9 | ı | , | 1 | 1 | ı | 1 |
| | | 84 m.p.h. | 9.66 | 98.9 | 99.5 | 0.66 | ı | 98.6 | 1 | ı | 1 | 1 | ı | 1 |
| 1 | | 89 ш.р.h. | 100.0 | 7.66 | 100.0 | 99.5 | 1 | 100.0 | 1 | 1 | 1 | 3 | 1 | 1 |
| un | No | 0 | , | 140 | ı | I N | ı | 43 | 1 | 36 | 1 | 17 | 1 | 19 |
| Bo | Ave | Average speed | ı | 62.5 | 1 | 62.0 | ı | 63.5 | 1 | 55.2 | 1 | 54.2 | - | 56.1 |
| pu | No | No. of vehicles obs. | 1 | 1.42 | 1 | 112 | 1 | 30 | 1 | 89 | 1 | 28 | 1 | 34 |
| 200 | AVe | Average speed | 1 | 0.10 | 1 | 50.5 | - | 4. E9 | | 57 0 | | 5h 8 | 1 | 7.3 A |



TABLE 12 SPEED DATA

| tat | Station | 12 | Highway | my | S.R. | 25 | | Location | 1 | Miles | O.7 Miles West of Americus | Americ | 18 | | |
|-----|--------------|-------------------|----------------|------|---|-------------|-----------|---------------------------------|-------------|-------------|---|---------------|-----------|------------|------------------------|
| o | No. of Lanes | This | Obser! Date | Type | Observation Surface Date June 24, 19 | ıce 1968 | Aspha | Asphaltic Concrete Last Prev | l arrel | | Weather Observation (Speed Report August 25, 1967 | 7)eed 1967 | | No. Fair | |
| | , | | Time | | 10:00 A.M12:30 | 12:30 | O P.M. | 1 | H | Time | 30 A.M12:00 P.M | -12:00 | P.M. | | |
| | | | | | | PASSENGER | HGER CARS | | | | | | TRUCKS | | |
| | | | | | LTA | Ind | Indiana | Non-Ir | Non-Indiana | | A)) | Less 5000 | Less than | 5000 or | 5000 pounds or more |
| | OBS | OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| | io. oi. | of vehicles o | ops. | 216 | 217 | 177 | 186 | 33 | 31 | 83 | 7.1 | 36 | 35 | 14.7 | 36 |
| | Averag | Average speed (m. | p.h. | 59.7 | 61.6 | 59.7 | 61.4 | 59.6 | 63.0 | 52.7 | 54.0 | 53.1 | 54.9 | 52.4 | 53.2 |
| | Standa | 1 | on | 8.10 | 6.79 | 8.49 | 6.94 | 6.12 | 5.77 | 5.22 | 6.57 | 6.76 | 7.17 | 4.80 | 5.90 |
| | (4) | 24 m.F.n. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | 29 n.poh. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1 | 34 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28 | 1 | 39 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 2.9 | 0.0 | 0.0 |
| сте | ave Al | 44 m.p.h. | | 1.9 | 0.0 | 1.7 | 0.0 | 5.6 | 0.0 | 4. 8 | 7.0 | 5.6 | 11.4 | 4.3 | 2.3 |
| ţŲŧ | [Ţ : | 49 mopoho | | 9.7 | 2.3 | 11.3 | 2.7 | 2.6 | 3.2 | 28.9 | 22.5 | 27.8 | 22.3 | 8. | 22.2 |
| ĐΛ. | 89. 889. | 54 ш.р.h. | | 22.5 | 15.7 | 26.6 | 17.71 | 20.5 | 3.2 | 61.5 | 52.1 | 61.1 | 0.04 | 61.7 | 63.9 |
| LLA | ŢJ | 59 п.р.н. | | 50.0 | 40.1 | 7.64 | 41.9 | 51.3 | 29.0 | 4.06 | 77.5 | 83.3 | 71.4 | 95.7 | 83.3 |
| , | 0 | 64 m.p.h. | | 75.9 | 9.69 | 74.0 | 71.0 | 84.6 | 61.3 | 98.8 | 95.8 | 97.2 | 94.3 | 100.0 | 97.2 |
| | 3.5 | 69 m.p.h. | | 98.9 | 88.9 | 88.7 | 88.7 | 89.7 | 90.3 | 100.0 | 98.6 | 100.0 | 100.0 | 1 | 97.2 |
| | | 74 m.p.h. | | 97.2 | 95.4 | 96.6 | 95.2 | 100.0 | 96.8 | 1 | 100.0 | 1 | J | ı | 100.0 |
| | | 79 m.p.h. | | 98.2 | 99.1 | 7.79 | 98.9 | 1 | 100.0 | 1 | • | ı | t | • | 1 |
| | a j | 84 m.p.h. | | 99.5 | 100.0 | 4.66 | 100.0 | ı | 1 | 1 | 1 | ı | | 1 | • |
| | C | 39 m.p.h. | | 99.5 | - | 4.66 | | 1 | - | 1 | - | 1 | 1 | - | • |
| uno | No. of | 77 | ops. | 1 | 111 | - | 95 | 1 | 16 | t | 36 | 1 | 18 | 1 | 318 |
| BC | Average | de speed | | • | 61.5 | 1 | 61.4 | | 62.1 | 1 | 55.1 | 1 | 54.9 | 1 | 55.3 |
| put | No. Oi | of vehicles o | bbs. | 1 | 106 | 1 | 91. | 1 | 15 | 1 | 35 | • | 17 | 1 | 18 |
| rog | AVCTE ;e | peads at | | , | 61.7 | ı | 61.3 | 1 | 63.9 | ı | 52.9 | ı | 6.45 | - | 51.1 |
| | | | | | | | | | | | | | | | |



TABLE 13 SPEED DATA

Present 5000 pounds 0.0 0.3 91.9 22.7 100.0 7.66 more Last 100.0 66.2 0.3 346 9.0 2.0 27.8 95.7 17.66 55 ٢ Last Previous Observation (Speed Report No. Present Less than 5000 pounds 100.0 TRUCKS 1,2.0 72.0 0.0 0.0 0.0 1.0 0.9 20.0 98.0 100 7.27 0.06 0.66 73.8 0.0 Last 0.09 0.0 0.0 0.0 10.0 46.3 88.3 5.76 0.00 See Individual Stations 80 8 Present 100.0 0.0 58.5 0.0 07.5 99.3 444 0.0 0. 1.4 6.1 22.1 87.4 F 100.0 0.0 62.4 91.6 4.76 0.2 8 99.5 57.5 0 0.5 1.6 Last 27.0 8.66 126 Date Present 26.3 67.9 0.0 0.0 C 0.0 0.2 8.7 50.65 89.2 8.66 6.1 100.0 Non-Indiana 426 Location Last 100.0 0 0.0 0.0 28.1 308 0.0 10.3 0.66 70. PASSENGER CARS Present 93.0 0.0 37.5 00 7 0.7 7.06 0 Indiana Interstate Last 66.4 98 88.5 653 0.0 0 0.0 0.0 0.0 38.0 67.8 0 7.66 6 This Observation Surface Present 0 33.4 6.99 0.0 10.9 99.7 3 0 0.1 6 4 Last 0.0 0.0 62.2 0.0 0.0 0.0 34.3 86.7 99.8 96.9 0.0 4.5 96.5 1051 67.1 Highway 00 Date Time Average speed (m.p.h. No. of vehicles obs. Standard deviation Station 1,2,3, & 4 84 m.p.h. m.p.h. OBSERVATION 29 m.poh. m.p.h. 69 ш.р. н. 24 m.p.h. m.p.h. m.p.h. mop.h. m.poh. 59 m.p.h. m.p.h. m.p.h. 太 No. of Lanes ŧ 2 67 Ţesa JO than 35 traveling % of vehicles All vehicles



TABLE 14 SPEED DATA

Last | Present 5000 pounds 267 70.8 98,1 or more 93. 100.0 0.0 0.0 20.8 78.8 99.3 288 97.2 54.1 Last Previous Observation (Speed Report No. Last Present Less than 5000 pounds 0.0 78.0 TRUCKS 0.0 29.7 51.7 94.5 .20 12,1 0.001 0.001 6 23 39.7 59.5 See Individual Stations 0.0 0.0 0.0 85. Present 0.0 0.0 0.0 17.0 6.93 89.7 97.2 39.1 0.001 0.001 T T 0 0.0 0.0 19.6 16.5 93.8 98.5 7.2 54.9 Last 107 Date Time 1 Present 100.0 Non-Indiana 0.0 0.5 0 7.40 7.66 98.1 Location Last 100.0 0.0 0.0 0.0 6.42 93.7 99.3 8 410 98 PASSENGER CARS Present 100.0 0.50 64.2 0.0 18.0 0 0.0 54.7 98.5 80.7 6.66 Indiana 728 100.0 Last 0.0 0 20.0 0.0 79.3 8.66 6.64 20.04 05.0 550 This Observation Surface Present 100.0 100.0 1103 64.9 0.0 0.0 0.0 6.84 95.6 98.4 8.66 † O 5.4 0 扫 Last 98.7 01. 11 0.0 0 0.0 0.5 8.66 65.0 0:0 696 Station 5,6,7,88 Highway Date Time Average speed (m.p.h. No. of vehicles obs. Standard deviation 84 m.p.h. m.p.h. 29 m.p.h. OBSERVATION m.p.h. m.p.h. m.p.h. mop.h. m.poh. 59 m.p.h. m.p.h. m.p.h. m.p.h. m.p.h. No. of Lanes ŧ 7, 九 2 J.B теза JO than traveling % of vehicles All vehicles



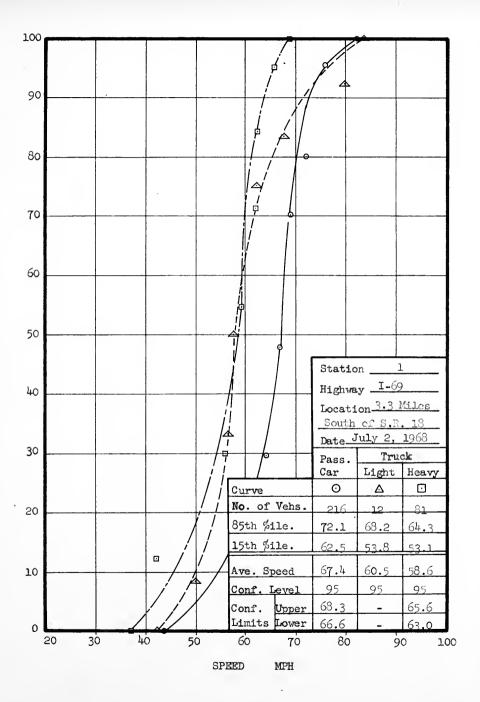
TABLE 15 SPEED DATA

TABLE 16 SPEED DATA

| | | | | pounds | Present | 811 | 56.2 | 6.08 | 0.0 | 0.0 | 0.0 | 0.5 | 4.1 | 13.0 | 36.9 | 68.7 | 93.5 | 99.1 | 6.66 | 100.0 | ı | ı |
|----------------------------|------------------------------|------|----------------|--------------------------|-------------|----------------------|-----------------------|--------------------|-----------|-----------|-----|-----|-----|------|-------|------|---------------|---------------|-------------|-----------|-----------|-----------|
| | No. B5 | ı | | 5000 | Last | 870 | 54.5 | 6.40 | 0.0 | 0.1 | 0.5 | 2.1 | 7.0 | 18.6 | 45.1 | 76.1 | | 5.66 | 100.0 | ı | ı | ı |
| | Weather sd Report N | | TRUCKS | Less than 5000 poimds | Present | 344 | 57.2 | 7,93 | 0.0 | 0.3 | 0.9 | 1.7 | 5.5 | 15.4 | 35.2 | 57.3 | 82.8 | 95.4 | 99.1 | 7.66 | 100.0 | 1 |
| tations | Weather Speed Report | | E∗4 | Less 5000 | Last | 355 | 56.3 | 7.89 | 00 | 0.0 | 9.0 | 2.3 | 6.2 | 19.2 | 113.7 | 64.2 | | 95.2 | 2.66 | 2.66 | 0.001 | ⊢⊢ |
| See Individual Stations | Previous Observation Date | | | All | Present | 1155 | 56.5 | 6.70 | 0.0 | 0.1 | 0.3 | 0.0 | 4.5 | 14.4 | 36.4 | 65.3 | | 93.0 | 7.66 | 6,99 | 100.0 | |
| ee Ind | ous Obse | Time | | | Last | 1225 | 55.1 | 6.90 | 0.0 | 0.1 | 0.5 | | 6.8 | 18.3 | 1.4.7 | 72.7 | 93.5 | 98.3 | 8.66 | 6.00 | 0.00 | 1 |
| | t Previo | H | | diana | Present | 1.048 | 66.0 | 6.39 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 1 | 4.2 | 15.0 | 38.7 | 71.2 | 92.9 | 97.5 | 7.66 | 100.0 |
| Location | Last | | | Non-Indiana | Last | 1072 | 65.8 | 7,02 | 0.0 | 0.0 | 0.0 | - 0 | 0.4 | 2 | 5.7 | 17.1 | 42.1 | 8.69 | 90.3 | 97.7 | 99.14 | 6.00 |
| | | | PASSENGER CARS | Indiana | Present | 2255 | 63.8 | 7.08 | 0.0 | 0.0 | 0.0 | . 0 | 6.0 | 3.0 | 9.8 | 23.3 | 54.7 | 80.0 | 94.9 | 98.5 | 7.66 | 8 66 |
| tems | e e | | PASSE | Ind | Last | 1893 | 63.9 | 7.68 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 3.9 | 11.0 | 25.8 | 5 2. 2 | 78.2 | 92.8 | 6.79 | 9.66 | 99. B |
| All Systems | Observation Surface Date | | | ALL | Present | 3303 | 64.5 | 6.94 | 0.0 | 0.0 | 0.0 | 1.0 | 0.7 | 2 1. | 8.1 | 20.7 | 14.5 | 77.2 | 94.3 | 98.2 | 99.7 | |
| way | TAPEO | ٥ | | 1 | Last | 2965 | 64.6 | 7.50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 9.1 | 22.7 | 48.5 | 75.1 | 92.0 | 97.9 | 98.6 | |
| Station, 1 Thur 12 Highway | No. of Lanes This Obsert | Time | | | OBSERVATION | No. of vehicles obs. | Average speed (m.p.h. | Standard deviation | 24 m.p.h. | 29 m.p.h. | | ŢŢ | JA6 | 11 | 589 | ŗoŢ | yə. | 7 4 69 п.р.н. | 0 74 m.p.h. | 79 т.р.h. | 84 m.p.h. | 39 m.p.h. |

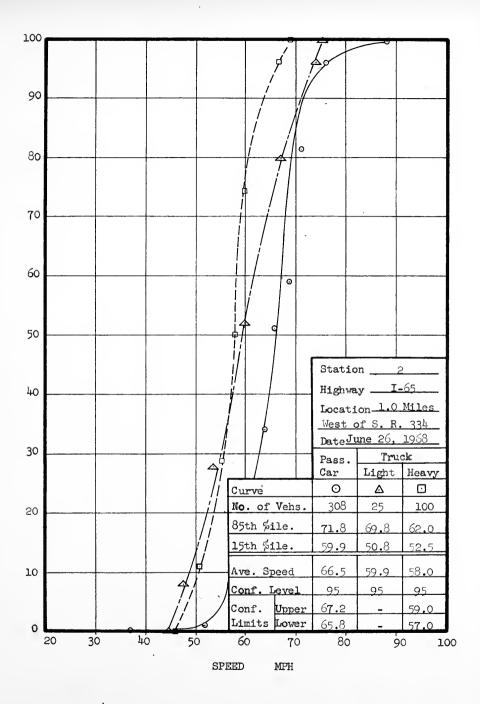




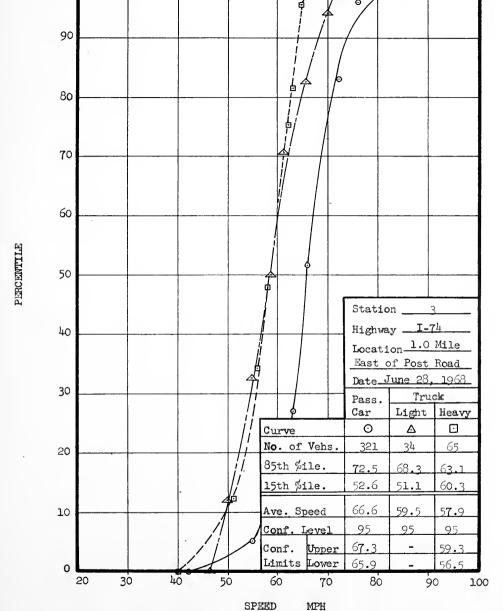






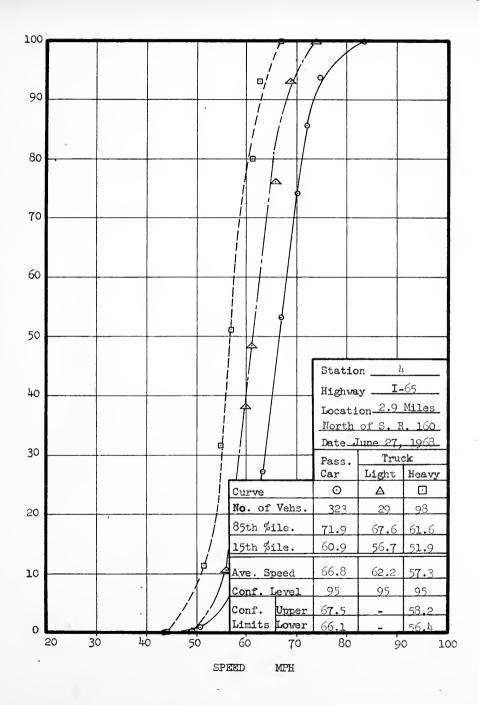




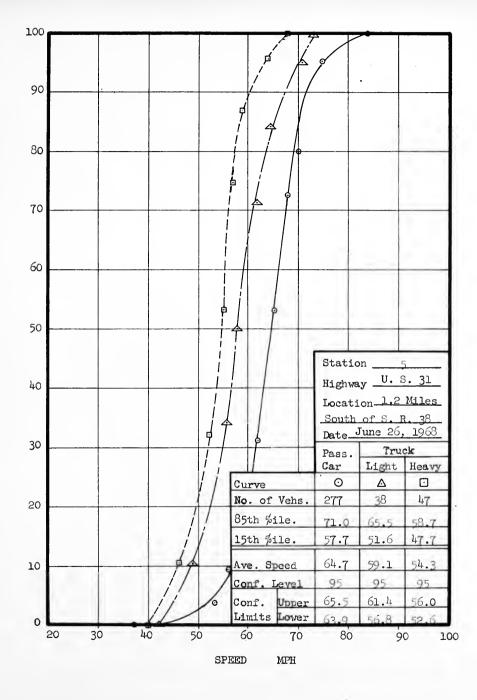




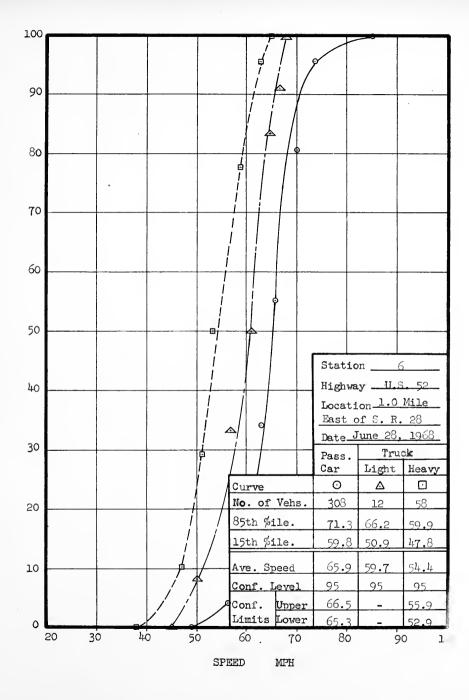




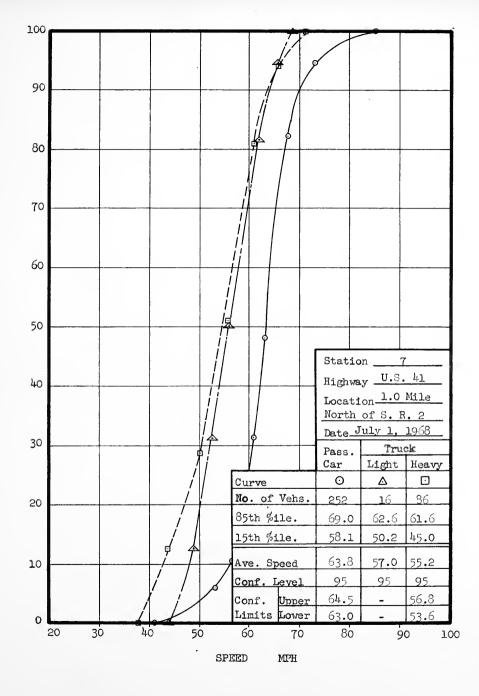






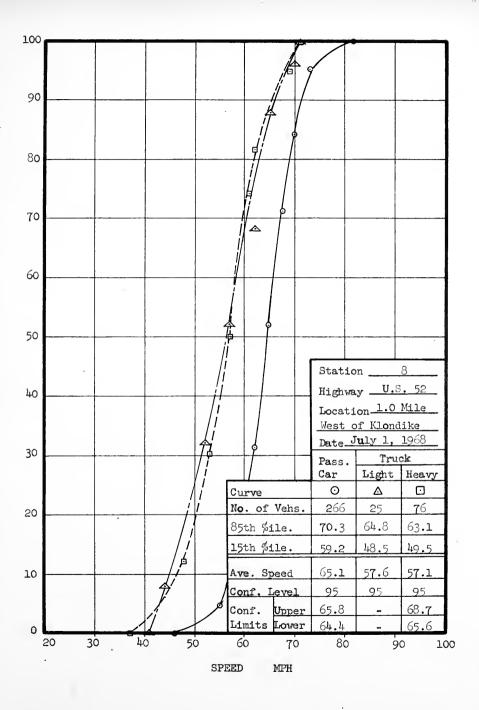






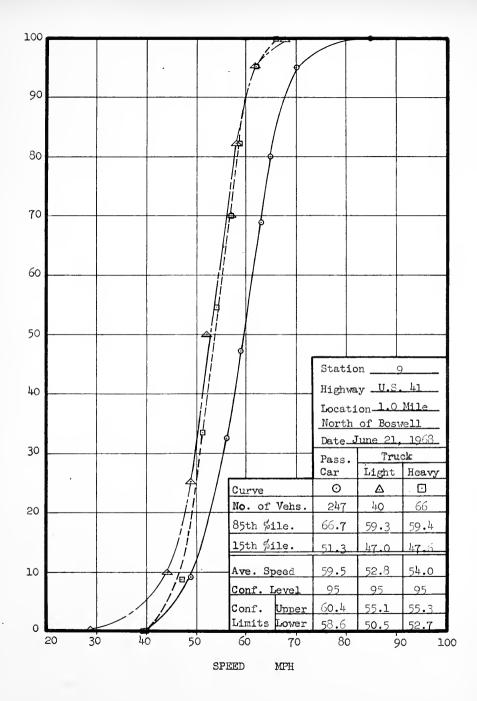


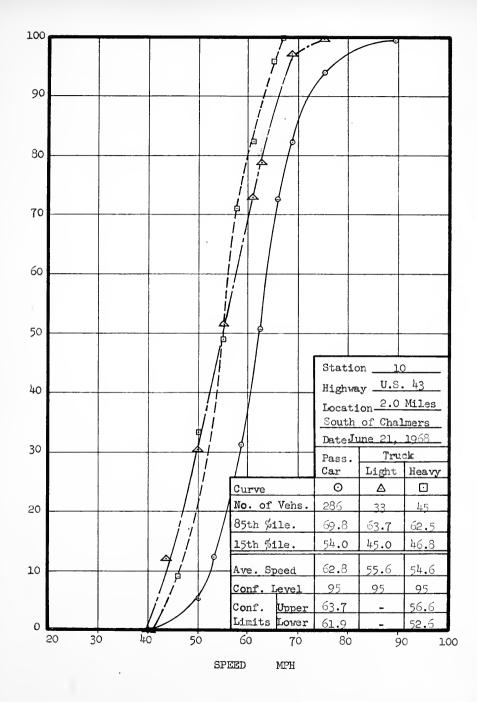




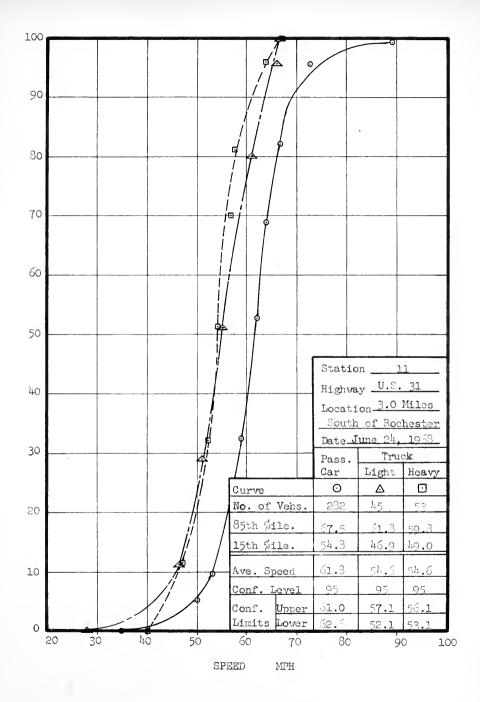




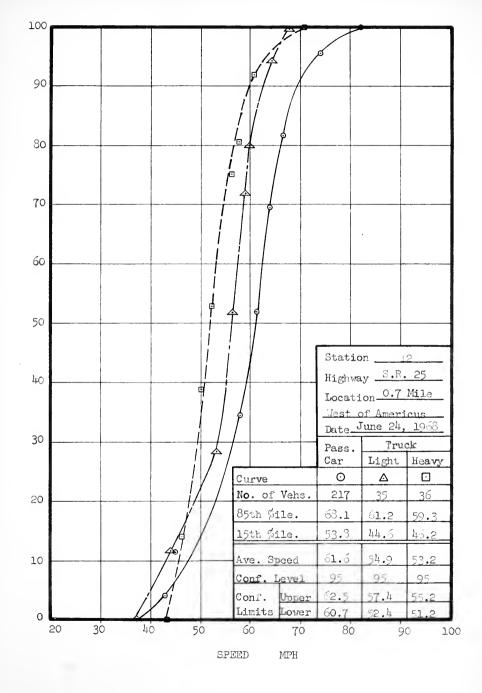




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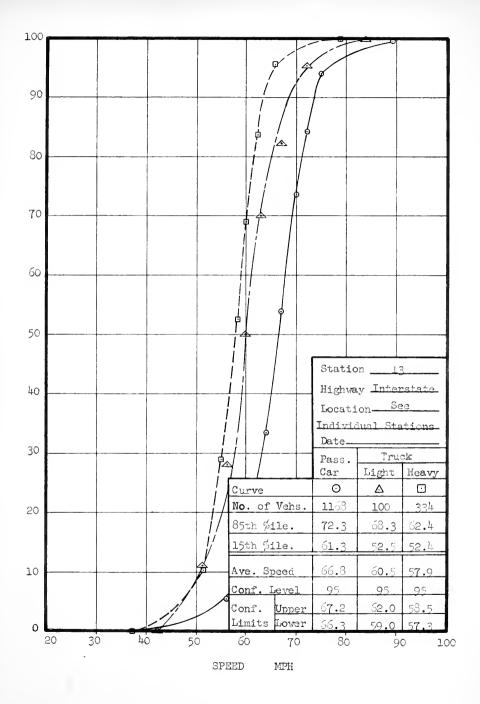


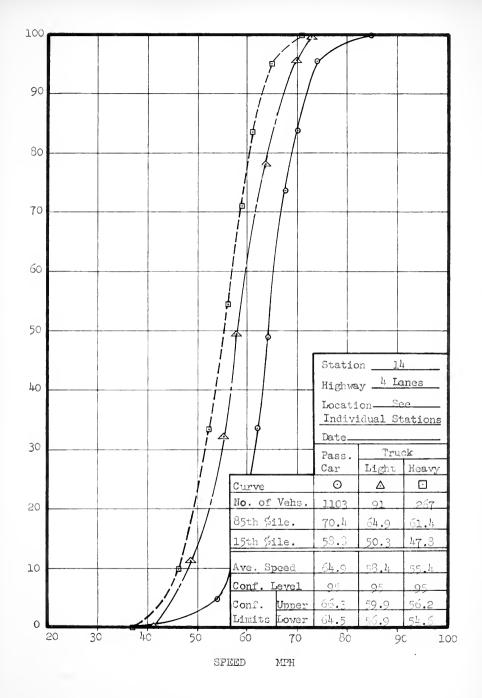












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